



Monday 17 October 2022

**MORNING**

Time of Issue: 0730 hours IST

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

**Withdrawal of Southwest Monsoon:**

⇒ The withdrawal line of Southwest Monsoon passes through 28.6°N, 93.6°E, Lumding, Kailashahar, Berhampore, Kanke, Bilaspur, Brahmपुरi, Buldana, Dahanu, Long. 71.0° E/Lat. 19.5° N.

⇒ Conditions are very likely to become favourable for further withdrawal of Southwest Monsoon from some more parts of Vidarbha, Chhattisgarh, interior Maharashtra and Jharkhand, some parts of interior Odisha and entire West Bengal during next 2 days.

**Weather systems, rainfall/thunderstorm Forecast & Warnings:**

◆ A cyclonic circulation lies over southeast Arabian Sea & adjoining Kerala coast in lower tropospheric levels and a trough runs from this cyclonic circulation to southwest Bay of Bengal in lower tropospheric levels.

◆ A cyclonic circulation is likely to form over north Andaman Sea & neighbourhood around 18th October 2022. It would move west northwestwards towards westcentral and adjoining southwest Bay of Bengal becoming low pressure area around 20th October, 2022.

**◆ Under the influence of above systems;**

o Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 17th-21st; over South Interior Karnataka on 17th; over Lakshadweep during 18th-20th October, 2022. Isolated **very heavy rainfall** also likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 20th October, 2022.

o Widespread light/moderate rainfall with isolated **heavy falls** very likely over Andaman & Nicobar Islands during 17th-21st October, 2022.

o Scattered/fairly widespread light/moderate rainfall with isolated **heavy falls** very likely over Madhya Maharashtra and Konkan & Goa on 17th October, 2022.

**o Dry weather very likely to prevail over most parts of Northwest & central India.**

**Main Weather Observations**

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(Circle to the Meteorology 1077)

◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST yesterday):** at many places over Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at a few places over East Madhya Pradesh, Marathwada, Telangana and Kerala & Mahe and at isolated places over Vidarbha, Chhattisgarh, Odisha, Madhya Maharashtra and Rayalaseema.

◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST yesterday):** Nil.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST yesterday):** (2 cm or more): Ambikapur-5; Rentachintala-4; Kodaikanal and Punalur-3 each and Jharsiguda-2.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST today):** at isolated places over East Madhya Pradesh, Chhattisgarh, Odisha, Marathwada, Karnataka, Rayalaseema, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

◆ **Minimum Temperature Departures (as on 16-10-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Jharkhand, Chhattisgarh, Odisha and Marathawada; at a few places over Madhya Maharashtra; at isolated places over Telangana. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over West Rajasthan; at a few places over East Uttar Pradesh, East Rajasthan, East Madhya Pradesh and Gujarat State; at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 13.6°C was reported at Raisen (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 16-10-2022):** Maximum temperatures were markedly above normal (+5.1° or more) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya; at many places over Himachal Pradesh, Kerala & Mahe; at a few places over West Bengal & Sikkim, Konkan & Goa and at isolated places over at many places over Madhya Maharashtra; at a few places over Haryana, Chandigarh & Delhi, Telangana. They were below normal (-1.6°C to -3.0°C) at most places over Uttar Pradesh, West Madhya Pradesh, Marathwada; at many places over East Madhya Pradesh; at a few places over East Rajasthan, Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.0°C was reported at Phalodi (West Rajasthan) over the plains of the country.

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### Meteorological Analysis (Based on 0530 hours IST)

- ◆ The withdrawal line of Southwest Monsoon continues to pass through 28.6°N, 93.6°E, Lumding, Kailashahar, Berhampore, Kanke, Bilaspur, Brahmपुरi, Buldana, Dahanu, Long. 71.0° E/Lat. 19.5° N.
- ◆ Conditions are very likely to become favourable for further withdrawal of **Southwest Monsoon** from some more parts of Vidarbha, Chhattisgarh, interior Maharashtra and Jharkhand, some parts of interior Odisha and entire West Bengal during next 2 days.
- ◆ The cyclonic circulation over central Arabian Sea extending upto 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over southeast Arabian Sea & adjoining Kerala coast extending upto 1.5 km above mean sea level persists.
- ◆ The trough from above cyclonic circulation over southeast Arabian Sea & adjoining Kerala coast to southwest Bay of Bengal extending upto 1.5 km above mean sea level across Kerala & Tamil Nadu persists.
- ◆ A fresh **Western Disturbance** is likely to affect Western Himalayan Region from the night of 18th October 2022.
- ◆ A cyclonic circulation is likely to form over north Andaman Sea & neighbourhood around 18th October 2022. It would move west northwestwards towards westcentral and adjoining southwest Bay of Bengal becoming low pressure area around 20th October, 2022.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 22nd October, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.

### Weather Outlook for subsequent 2 days During 22nd-24th October, 2022

- ◆ Fairly widespread light/moderate rainfall very likely over South peninsular India and Islands. Isolated to scattered light/moderate rainfall very likely over parts of east & northeast India and western Himalayan region.
- ◆ Dry weather is likely over rest parts of the country.



## Weather Warning during next 5 days \*

**17 Oct (Day 1): ♦ Heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands, Madhya Maharashtra, Konkan & Goa, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Vidarbha, Chhattisgarh, Jharkhand, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Lakshadweep-Maldives-Comorin area and southeast Arabian Sea. Fishermen are advised not to venture into these seas.

**18 Oct (Day 2): ♦ Heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands, Kerala & Mahe, Lakshadweep and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Andaman Sea. Fishermen are advised not to venture into these seas.

**19 Oct (Day 3): ♦ Heavy rainfall** at isolated places likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea and Southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

**20 Oct (Day 4): ♦ Heavy to very heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and **heavy rainfall** at isolated places over Andaman & Nicobar Islands, South Interior Karnataka and Lakshadweep.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea and South Bay of Bengal. Fishermen are advised not to venture into these seas.

**21 Oct (Day 5): ♦ Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Konkan & Goa, Madhya Maharashtra, Telangana, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea and South Bay of Bengal. Fishermen are advised not to venture into these seas.

**Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.**

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**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**17-October-2022**

Met-Sub-Division	17-Oct Today	18Oct Tue	19Oct Wed	20Oct Thu	21Oct Fri
1. Andaman & Nicobar Islands	WS	WS	WS	WS	WS
2. Arunachal Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
3. Assam & Meghalaya	ISOL	ISOL	ISOL	ISOL	ISOL
4. N. M. M. & T.	SCT	SCT	SCT	ISOL	ISOL
5. S.H. West Bengal & Sikkim	DRY	ISOL	ISOL	DRY	DRY
6. Gangetic West Bengal	DRY	ISOL	ISOL	ISOL	DRY
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	DRY
9. Bihar	DRY	ISOL	DRY	DRY	DRY
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	DRY	DRY	DRY	ISOL	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	DRY	DRY	ISOL	ISOL	DRY
16. J & K and Ladakh	DRY	ISOL	ISOL	ISOL	DRY
17. West Rajsthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	ISOL	DRY	DRY	DRY	DRY
21. Gujarat Region	ISOL	ISOL	ISOL	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	FWS	FWS	FWS	SCT	SCT
24. Madhya Maharashtra	FWS	FWS	SCT	SCT	SCT
25. Marathawada	SCT	SCT	ISOL	ISOL	ISOL
26. Vidharbha	SCT	SCT	ISOL	ISOL	ISOL
27. Chhattisgarh	SCT	SCT	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	FWS	FWS	FWS	FWS	FWS
29. Telangana	SCT	SCT	SCT	SCT	SCT
30. Rayalaseema	SCT	SCT	FWS	FWS	FWS
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	FWS	FWS
32. Coastal Karnataka	FWS	FWS	FWS	FWS	FWS
33. North Interior Karnataka	WS	FWS	FWS	FWS	SCT
34. South Interior Karnataka	WS	WS	WS	WS	FWS
35. Kerala & Mahe	WS	WS	WS	WS	WS
36. Lakshadweep	WS	WS	WS	WS	WS

**% Station Reporting Rainfall**

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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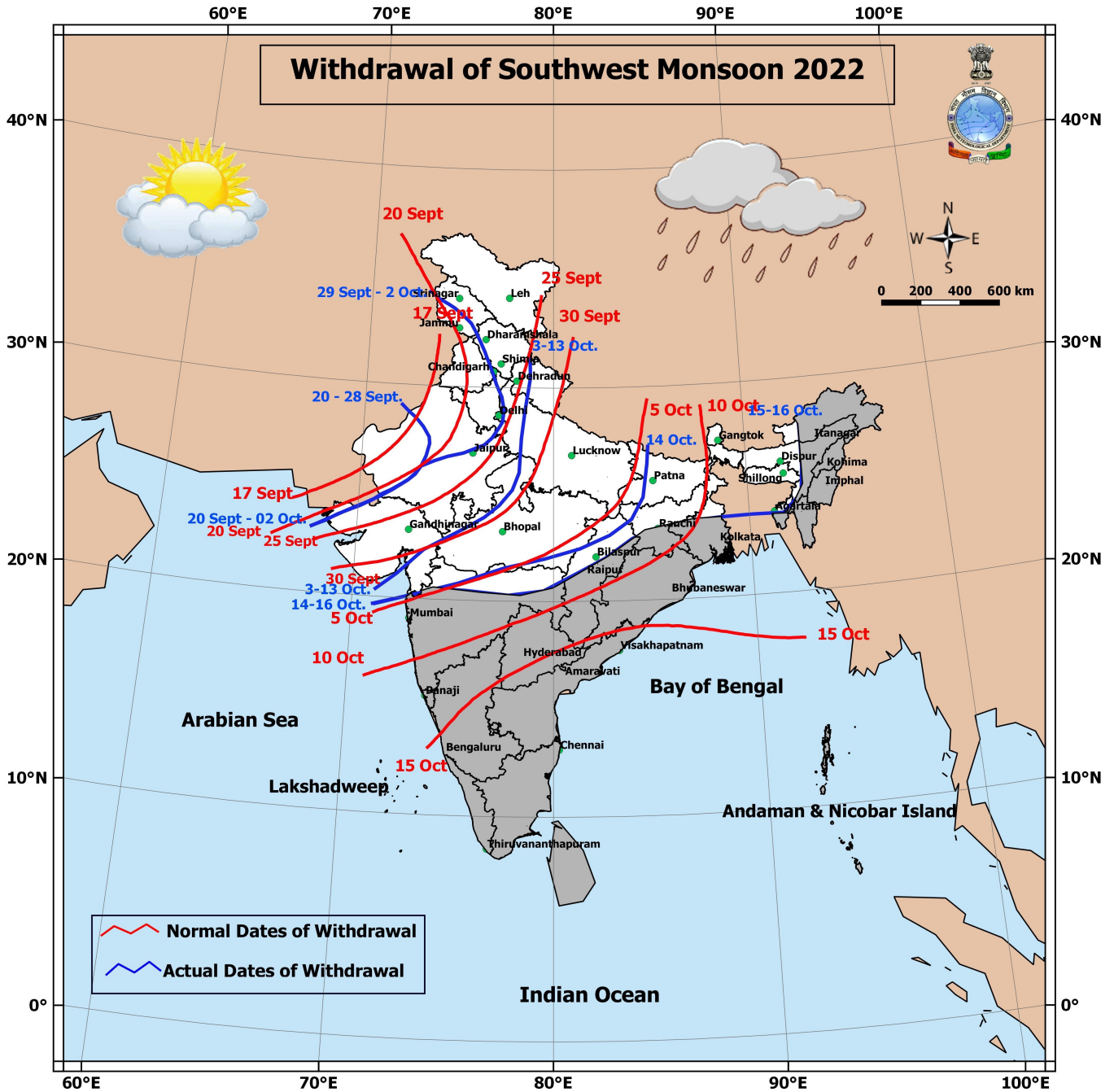
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Fig.1 Withdrawal of Southwest Monsoon 2022



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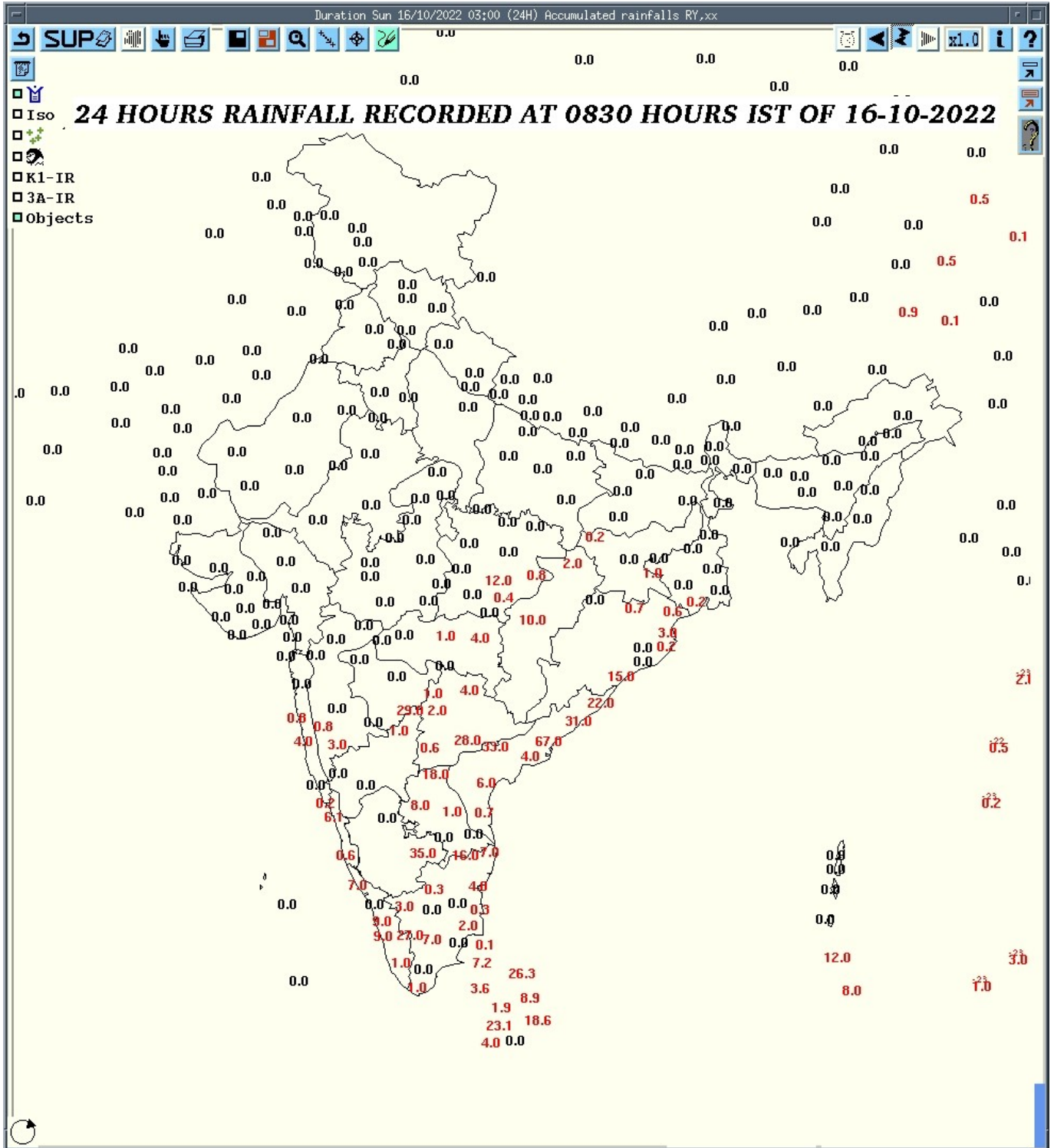
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Fig. 2: Accumulated Rainfall (mm) during past 24 hours



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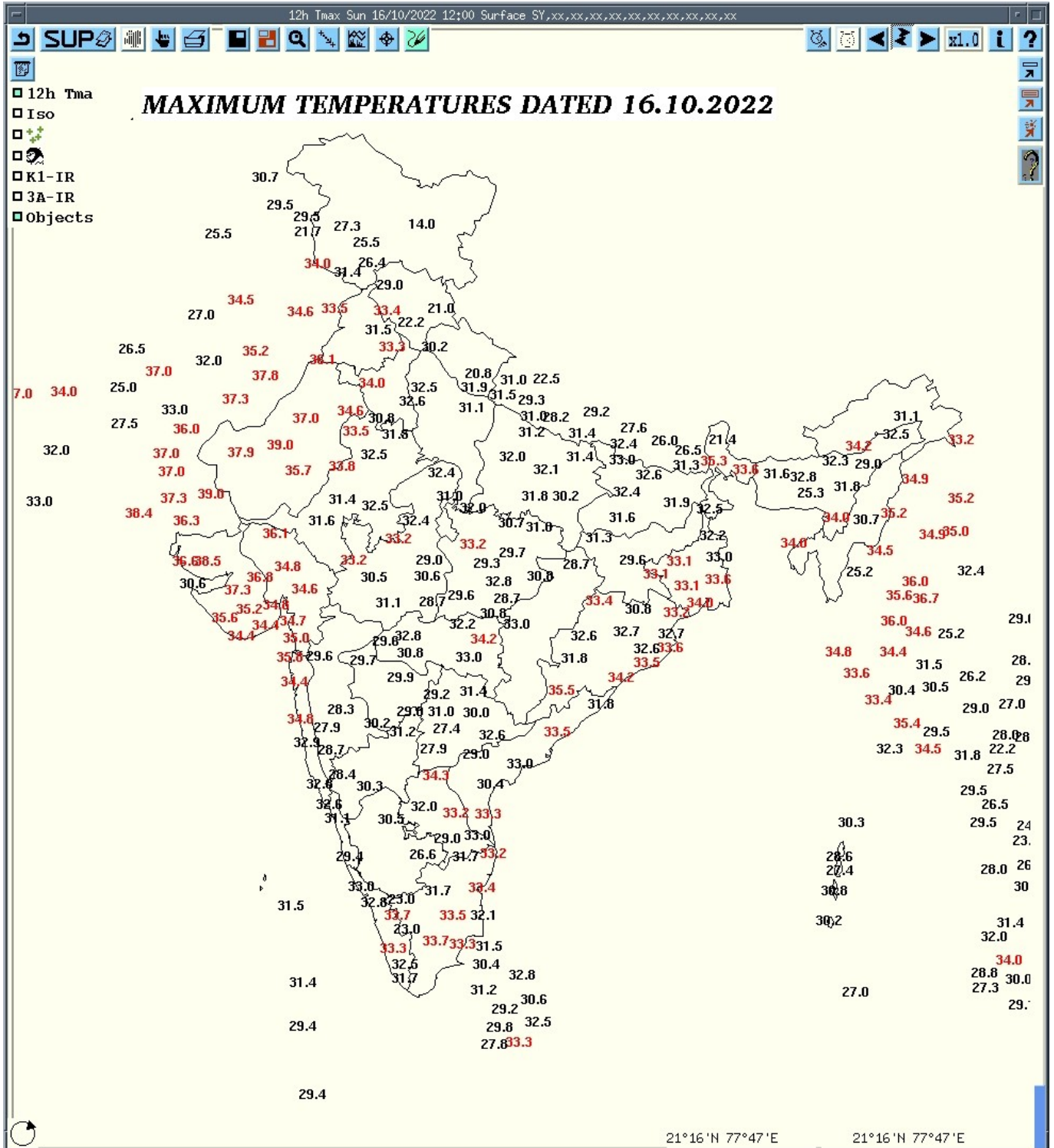
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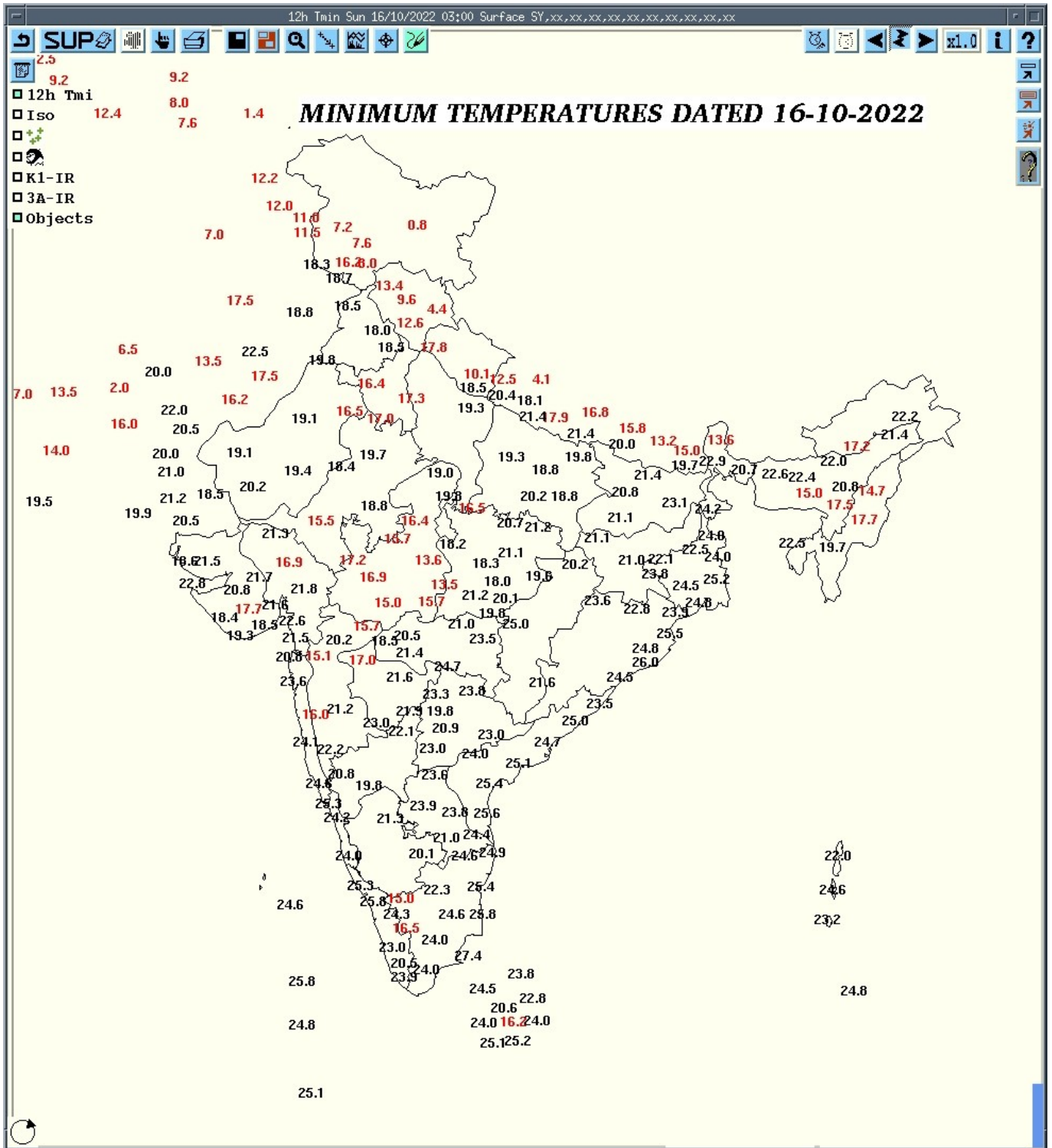
Fig. 3: Maximum Temperature during past 24 hours



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Fig. 4: Minimum Temperature during past 24 hours

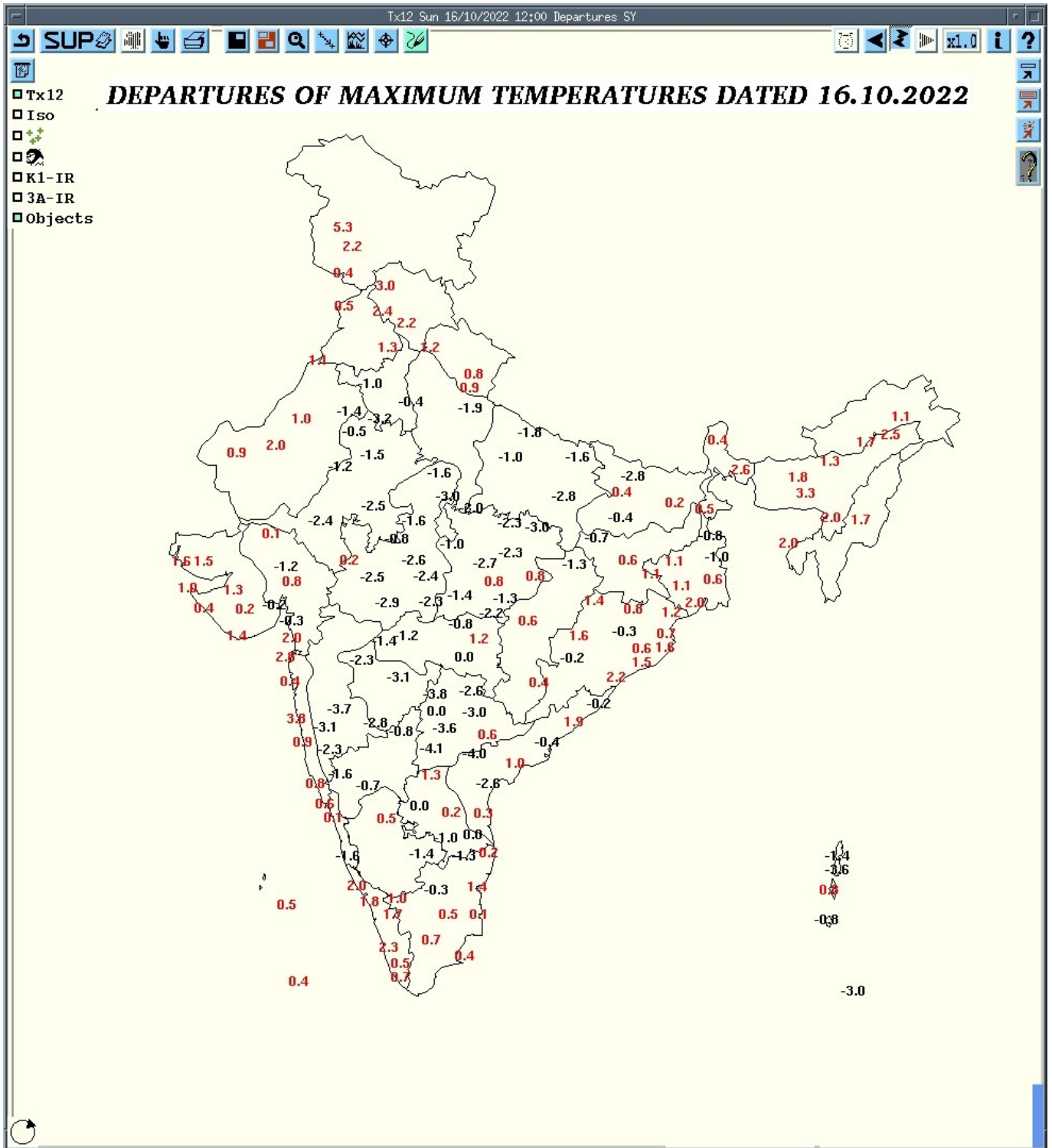


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Fig. 5 : Departure from Normal of Maximum Temperatures



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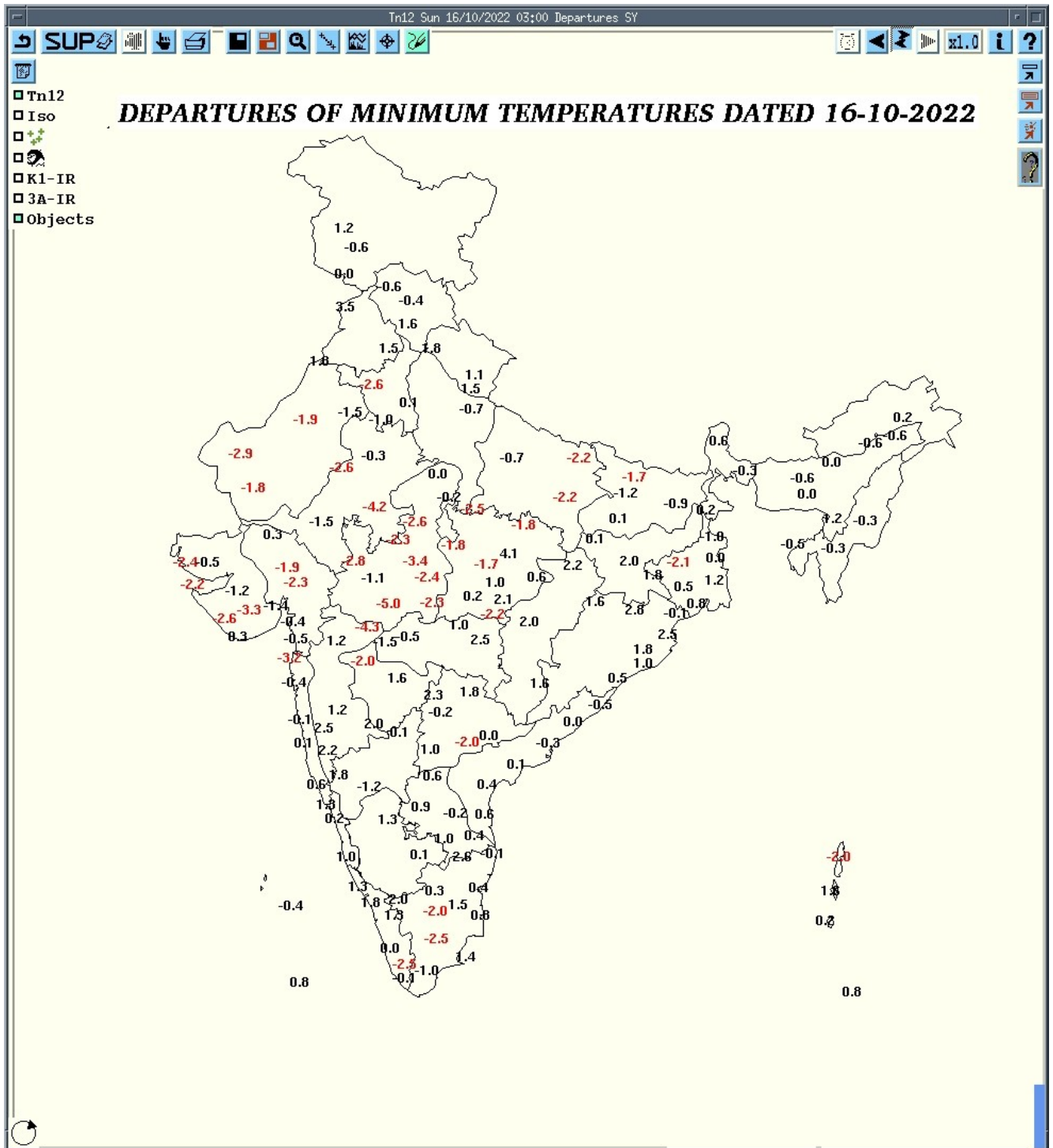
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Fig. 6 : Departure from Normal of Minimum Temperatures



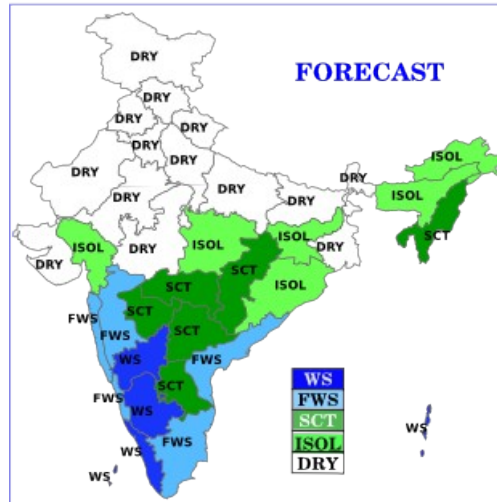
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## Monday 17 October 2022



**17 Oct (Day 1): ♦ Heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands, Madhya Maharashtra, Konkan & Goa, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Vidarbha, Chhattisgarh, Jharkhand, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Lakshadweep-Maldives-Comorin area and southeast Arabian Sea. Fishermen are advised not to venture into these seas.

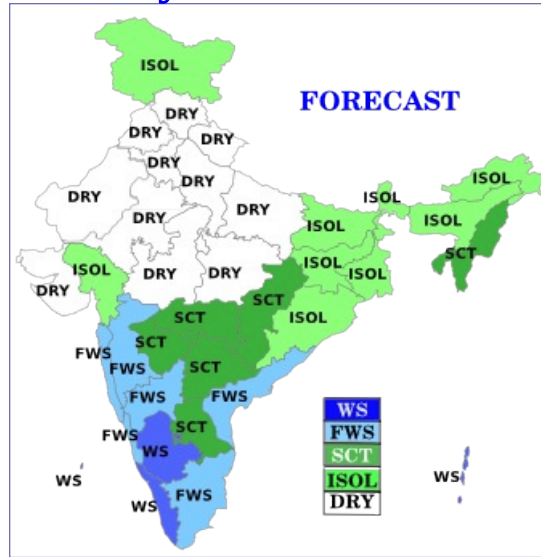
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## Tuesday 18 October 2022



**18 Oct (Day 2): ♦ Heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands, Kerala & Mahe, Lakshadweep and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Andaman Sea. Fishermen are advised not to venture into these seas.

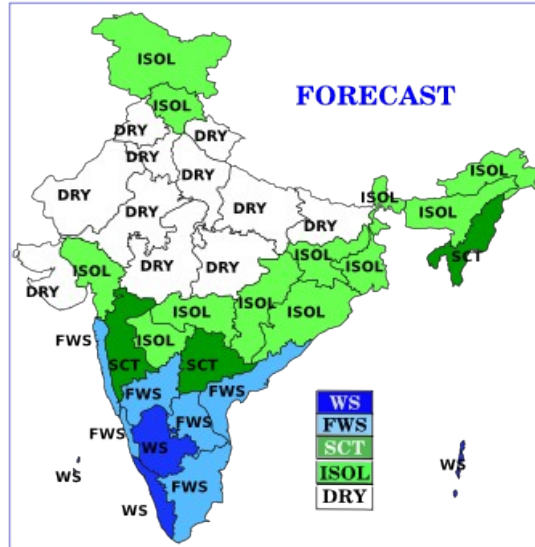
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## Wednesday 19 October 2022



**19 Oct (Day 3): ♦ Heavy rainfall** at isolated places likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea and Southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

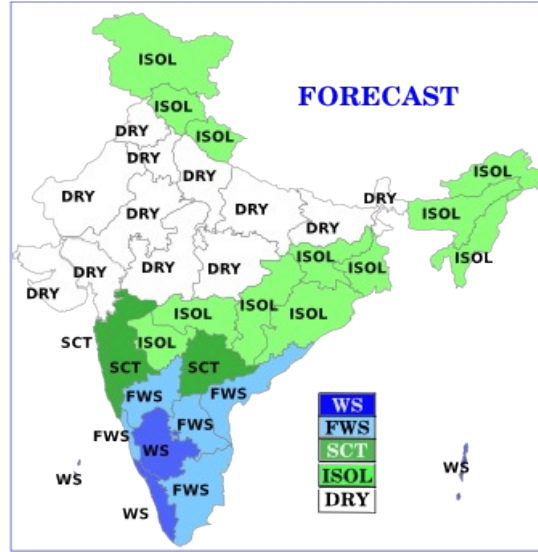
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## Thursday 20 October 2022



20 Oct (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and heavy rainfall at isolated places over Andaman & Nicobar Islands, South Interior Karnataka and Lakshadweep.

♦Thunderstorm accompanied with lightning at isolated places likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ Squally weather (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea and South Bay of Bengal. Fishermen are advised not to venture into these seas.

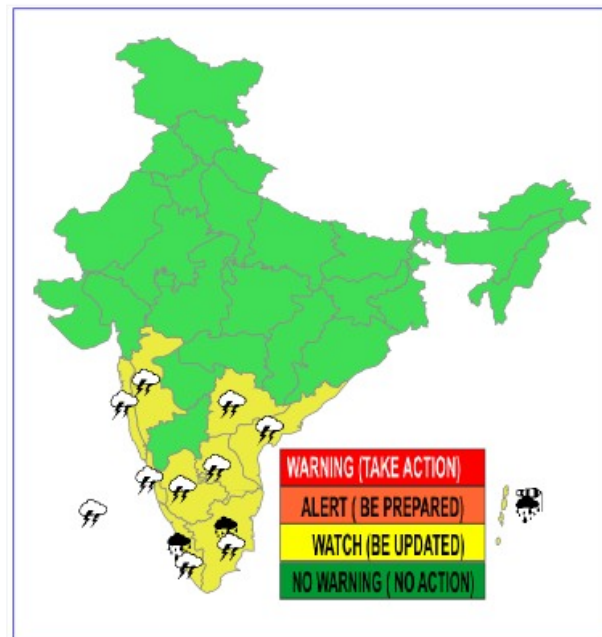
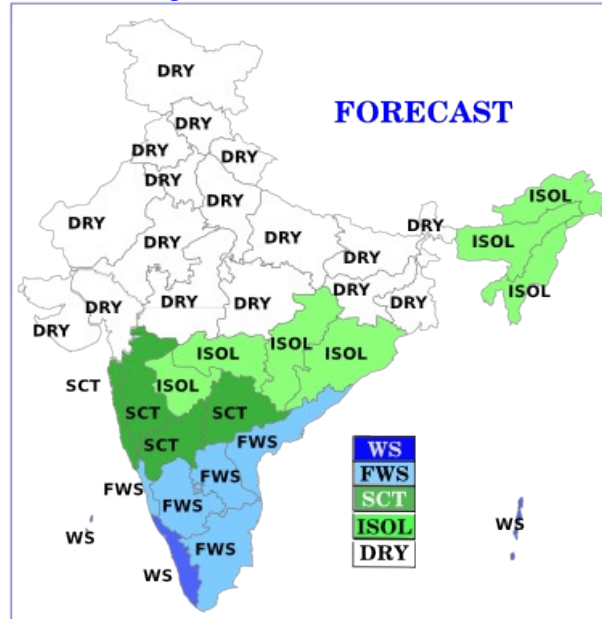
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## Friday 21 October 2022



21 Oct (Day 5): ♦ **Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Konkan & Goa, Madhya Maharashtra, Telangana, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea and South Bay of Bengal. Fishermen are advised not to venture into these seas.

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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media upto 1070)

## LEGENDS

### WARNING

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm \*  
Extremely Heavy: > 204.4 mm/cm \*



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c) Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



Cold Wave

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\geq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  or actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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